

# Mahdi Sharifzadeh

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,695  
citations

394421

19  
h-index

477307

29  
g-index

42  
all docs

42  
docs citations

42  
times ranked

2412  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated and inherently safe design and operation of a mobile power generation: Process intensification through microreactor reformer and HT-PEMFC. International Journal of Hydrogen Energy, 2021, 46, 23839-23854.	7.1	14
2	Multiscale modeling and optimization programming of solid oxide fuel cell systems. , 2020, , 161-183.		0
3	Synthesis, integration, and intensification of solid oxide fuel cell systems: process systems engineering perspective. , 2020, , 185-215.		0
4	Fault detection, loss prevention, hazard mitigation, and safe operation of solid oxide fuel cell systems. , 2020, , 255-274.		0
5	Design and operation of solid oxide fuel cell systems: challenges and future research directions. , 2020, , 445-463.		0
6	Developing group contribution models for the estimation of Atmospheric Lifetime and Minimum Ignition Energy. Chemical Engineering Science, 2020, 226, 115866.	3.8	4
7	Quantification of technological progress in greenhouse gas (GHG) capture and mitigation using patent data. Energy and Environmental Science, 2019, 12, 2789-2805.	30.8	35
8	Machine-learning methods for integrated renewable power generation: A comparative study of artificial neural networks, support vector regression, and Gaussian Process Regression. Renewable and Sustainable Energy Reviews, 2019, 108, 513-538.	16.4	187
9	MEA-based CO <sub>2</sub> capture integrated with natural gas combined cycle or pulverized coal power plants: Operability and controllability through integrated design and control. Journal of Cleaner Production, 2019, 207, 271-283.	9.3	30
10	China's roadmap to low-carbon electricity and water: Disentangling greenhouse gas (GHG) emissions from electricity-water nexus via renewable wind and solar power generation, and carbon capture and storage. Applied Energy, 2019, 235, 31-42.	10.1	60
11	The multi-scale challenges of biomass fast pyrolysis and bio-oil upgrading: Review of the state of art and future research directions. Progress in Energy and Combustion Science, 2019, 71, 1-80.	31.2	316
12	Recovery of excreted n-butanol from genetically engineered cyanobacteria cultures: Process modelling to quantify energy and economic costs of different separation technologies. Algal Research, 2019, 37, 92-102.	4.6	16
13	Iterative peptide synthesis in membrane cascades: Untangling operational decisions. Computers and Chemical Engineering, 2018, 115, 275-285.	3.8	3
14	Integrated renewable electricity generation considering uncertainties: The UK roadmap to 50% power generation from wind and solar energies. Renewable and Sustainable Energy Reviews, 2017, 72, 385-398.	16.4	51
15	Implication of Side Reactions in Iterative Biopolymer Synthesis: The Case of Membrane Enhanced Peptide Synthesis. Industrial & Engineering Chemistry Research, 2017, 56, 6796-6804.	3.7	8
16	Modelling the kinetics of pyrolysis oil hydrothermal upgrading based on the connectivity of oxygen atoms, quantified by 31 P-NMR. Biomass and Bioenergy, 2017, 98, 272-290.	5.7	6
17	Multi-objective design and operation of Solid Oxide Fuel Cell (SOFC) Triple Combined-cycle Power Generation systems: Integrating energy efficiency and operational safety. Applied Energy, 2017, 185, 345-361.	10.1	51
18	Inherently safe and economically optimal design using multi-objective optimization: The case of a refrigeration cycle. Chemical Engineering Research and Design, 2016, 104, 254-267.	5.6	28

#	ARTICLE	IF	CITATIONS
19	Carbon capture from pulverized coal power plant (PCPP): Solvent performance comparison at an industrial scale. <i>Applied Energy</i> , 2016, 163, 423-435.	10.1	28
20	Carbon capture from natural gas combined cycle power plants: Solvent performance comparison at an industrial scale. <i>AIChE Journal</i> , 2016, 62, 166-179.	3.6	14
21	Comparative studies of CO <sub>2</sub> capture solvents for gas-fired power plants: Integrated modelling and pilot plant assessments. <i>International Journal of Greenhouse Gas Control</i> , 2015, 43, 124-132.	4.6	10
22	Supply chain network design and operation: Systematic decision-making for centralized, distributed, and mobile biofuel production using mixed integer linear programming (MILP) under uncertainty. <i>Biomass and Bioenergy</i> , 2015, 81, 401-414.	5.7	81
23	Decarbonisation of olefin processes using biomass pyrolysis oil. <i>Applied Energy</i> , 2015, 149, 404-414.	10.1	18
24	An integrated process for biomass pyrolysis oil upgrading: A synergistic approach. <i>Biomass and Bioenergy</i> , 2015, 76, 108-117.	5.7	40
25	Integrated biorefineries: CO <sub>2</sub> utilization for maximum biomass conversion. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 47, 151-161.	16.4	49
26	Inexpensive ionic liquids: [HSO <sub>4</sub> ] <sup>-</sup> -based solvent production at bulk scale. <i>Green Chemistry</i> , 2014, 16, 3098-3106.	9.0	309
27	Implementation of a steady-state inversely controlled process model for integrated design and control of an ETBE reactive distillation. <i>Chemical Engineering Science</i> , 2013, 92, 21-39.	3.8	19
28	Integration of process design and control: A review. <i>Chemical Engineering Research and Design</i> , 2013, 91, 2515-2549.	5.6	107
29	Bioethanol production from various waste papers: Economic feasibility and sensitivity analysis. <i>Applied Energy</i> , 2013, 111, 1172-1182.	10.1	76
30	Integrated design and control using a dynamic inversely controlled process model. <i>Computers and Chemical Engineering</i> , 2013, 48, 121-134.	3.8	25
31	Technology performance and economic feasibility of bioethanol production from various waste papers. <i>Energy and Environmental Science</i> , 2012, 5, 5717-5730.	30.8	57
32	Optimal selection of control structure using a steady-state inversely controlled process model. <i>Computers and Chemical Engineering</i> , 2012, 38, 126-138.	3.8	31
33	Energy Induced Separation Network Synthesis of an Olefin Compression Section: A Case Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 1610-1623.	3.7	13
34	Optimal controlled variable selection using a nonlinear simulation-optimization framework. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 597-601.	0.5	0